

Title (en)
PHOTOMASK

Title (de)
FOTOMASKE

Title (fr)
MASQUE PHOTOGRAPHIQUE

Publication
EP 1526406 A4 20060531 (EN)

Application
EP 03705313 A 20030219

Priority
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Abstract (en)
[origin: TW200401953A] In virtual regions (2) and (3), dummy patterns are formed as sub-patterns. However, the aperture ratios are 60%, 90% when the virtual regions (2) and (3) are only formed as primary patterns. The dummy pattern in the virtual region (2) is a square shading pattern with a side length of 0.15 μ m, and the virtual region (3) is a square shading pattern with a side length of 0.2 μ m. In addition, the aperture ratios of the virtual regions (2) and (3) are both set to 30%. If the photomask is used to perform the exposure process, in any points within the range in which the photosensitive material is radiated by the exposure light, the amount of the light produced by a local flare is almost the same. As a result, even the line width is varied, the extent of the variation of the photomask as a whole is the same.

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IPC 8 full level
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CPC (source: EP)
G03F 1/70 (2013.01); **G03F 7/70591** (2013.01); **G03F 7/70941** (2013.01)

Citation (search report)
• [XY] US 5948573 A 19990907 - TAKAHASHI HIROSHI [JP]
• [Y] JP 2001125252 A 20010511 - FUJITSU LTD
• [Y] JP 2000124305 A 20000428 - MITSUBISHI ELECTRIC CORP & US 6574789 B1 20030603 - YAMAUCHI SATOSHI [JP] & US 6448630 B1 20020910 - KOMORI SHIGEKI [JP]
• [Y] PATENT ABSTRACTS OF JAPAN vol. 2000, no. 10 17 November 2000 (2000-11-17)
• See references of WO 2004013695A1

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